

RATIONALE

FOR

THE TENNESSEE STORMWATER MULTI-SECTOR GENERAL PERMIT FOR INDUSTRIAL ACTIVITIES

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1 Introduction

This permit rationale (or fact sheet) sets forth the Division of Water Resources’ (the division’s) basis for permit conditions to be applied statewide for the reissuance of the Tennessee Stormwater Multi-Sector General Permit for Industrial Activities (TMSP). The TMSP is intended to authorize industrial stormwater discharges to waters of the State of Tennessee from industrial facilities.

2 Background

The TMSP is intended to cover stormwater discharges to waters of the State of Tennessee from a wide variety of industrial activities and is derived from, and based in large part upon, the Final National Pollutant Discharge Elimination System (NPDES) Stormwater Multi-Sector General Permit for Industrial Activities as promulgated by the Environmental Protection Agency (EPA) in Federal Register / Vol. 65, No. 210 / Monday, October 30, 2000, and the subsequent NPDES General Permits for Stormwater Discharges from Industrial Activities as published in the Federal Register (December 1, 2005; September 29, 2008; September 27, 2013 – extension of comment period for the proposed permit). Because the conditions that affect the presence of pollutants in stormwater discharges vary among industries, this permit contains industry-specific sections (sectors) that describe the stormwater pollution prevention plan requirements, the numeric effluent limitations requirements and the monitoring requirements for each permitted industry. These industry-specific sectors are contained in part 11 of this permit and are described in this Rationale. There are also a number of permit requirements that apply to all industries. These requirements may be found in parts 1 through 10 of the permit body. They include the general coverage discussion, the Notice of Intent requirements and the standard permit conditions.

TMSP Rationale

A tabulation of the industrial activities covered by Tennessee’s proposed general permit, including references to applicable monitoring requirements for each particular sector and SIC codes, is presented below. Shaded sub-sectors indicate that the sampling requirements are changed from “No” in the previous permit to “Yes” for this permit.

SIC Code	Industrial Activity	Sampling Required?	Table Number
Sector A: Timber Products Facilities			
2411	Logging	Yes	A-3
2421	Sawmills and Planing Mills, General	Yes	A-1
2426	Hardwood Dimension and Flooring Mills	Yes	A-4
2429	Special Product Sawmills, NEC	Yes	A-4
2431	Millwork	Yes	A-4
2435	Hardwood Veneer and Plywood	Yes	A-4
2436	Softwood Veneer and Plywood	Yes	A-4
2439	Structural Wood Members, Not Elsewhere Classified (NEC)	Yes	A-4
2441	Nailed and Lock Corner Wood Boxes and Shook	Yes	A-4
2448	Wood Pallets and Skids	Yes	A-4
2449	Wood Containers, NEC	Yes	A-4
2451	Mobile Homes	Yes	A-4
2452	Prefabricated Wood Buildings and Components	Yes	A-4
2491	Wood Preserving	Yes	A-2
2493	Reconstituted Wood Products	Yes	A-4
2499	Wood Products, NEC	Yes	A-4
Sector B: Paper and Allied Products Manufacturing Facilities			
2611	Pulp Mills	Yes	-
2621	Paper Mills	Yes	-
2631	Paperboard Mills	Yes	B-1
2652	Setup Paperboard Boxes	No	-
2653	Corrugated and Solid Fiber Boxes	No	-
2655	Fiber Cans, Tubes, Drums, and Similar Products	No	-
2656	Sanitary Food Containers, Except Folding	No	-
2657	Folding Paperboard Boxes, Including Sanitary	No	-
2671	Packaging Paper and Plastics Film, Coated and Laminated	No	-
2672	Coated and Laminated Paper, NEC	No	-
2673	Plastics, Foil, and Coated Paper Bags	No	-
2674	Uncoated Paper and Multiwall Bags	No	-
2675	Die-Cut Paper and Paperboard and Cardboard	No	-
2676	Sanitary Paper Products	No	-
2677	Envelopes	No	-
2678	Stationery, Tablets, and Related Products	No	-
2679	Converted Paper and Paperboard Products, NEC	No	-
Sector C: Chemical and Allied Products Manufacturing Facilities			
2812	Alkalies and Chlorine	Yes	C-3
2813	Industrial Gases	Yes	C-3
2816	Inorganic Pigments	Yes	C-3
2819	Industrial Inorganic Chemicals, NEC	Yes	C-3
2821	Plastics Material Synthetic Resins, and Nonvulcanizable Elastomers	Yes	C-5
2822	Synthetic Rubber	Yes	C-5
2823	Cellulosic Manmade Fibers	Yes	C-5
2824	Manmade Organic Fibers, Except Cellulosic	Yes	C-5
2833	Medicinal Chemicals and Botanical Products	Yes	C-6
2834	Pharmaceutical Preparations	Yes	C-6
2835	In Vitro and In Vivo Diagnostic Substances	Yes	C-6
2836	Biological Products, Except Diagnostic Substances	Yes	C-6
2841	Soaps and Other Detergents, Except Specialty Cleaners	Yes	C-4

SIC Code	Industrial Activity	Sampling Required?	Table Number
2842	Specialty Cleaning, Polishing, and Sanitary Preparations	Yes	C-4
2843	Surface Active Agents, Finishing Agents, Sulfonated Oils, and Assistants	Yes	C-4
2844	Perfumes, Cosmetics, and Other Toilet Preparations	Yes	C-4
2851	Paints, Varnishes, Lacquers, Enamels, and Allied Products	No	--
2861	Gum and Wood Chemicals	No	--
2865	Cyclic Organic Crudes and Intermediates, and Organic Dyes and Pigments	No	--
2869	Industrial Organic Chemicals, NEC	No	--
2873	Nitrogenous Fertilizers	Yes	C-2
2874	Phosphatic Fertilizers	Yes	C-1
2875	Fertilizers, Mixing Only	Yes	C-2
2879	Pesticides and Agricultural Chemicals, NEC	Yes	C-2
2891	Adhesives and Sealants	No	--
2892	Explosives	No	--
2893	Printing Ink	No	--
2895	Carbon Black	No	--
2899	Chemicals and Chemical Preparations, NEC	No	--
Sector D: Asphalt Paving, Roofing Materials, and Lubricant Manufacturing Facilities			
2951	Asphalt Paving Mixtures and Blocks	Yes	D-1&2
2952	Asphalt Felts and Coatings	Yes	D-2
2992	Lubricating Oils and Greases	Yes	-
2999	Miscellaneous Products of Petroleum and Coal		
Sector E: Glass, Clay, Cement, Concrete, and Gypsum Product Manufacturing Facilities			
3211	Flat Glass	Yes	E-3
3221	Glass Containers	Yes	E-3
3229	Pressed and Blown Glass and Glassware, NEC	Yes	E-3
3231	Glass Products, Made of Purchased Glass	Yes	E-3
3241	Cement, Hydraulic	Yes	E-3
3251	Brick and Structural Clay Tile	Yes	E-1
3253	Ceramic Wall and Floor Tile	Yes	E-1
3255	Clay Refractories	Yes	E-1
3259	Structural Clay Products, NEC	Yes	E-1
3261	Vitreous China Plumbing Fixtures and China and Earthenware Fittings and Bathroom Accessories	Yes	E-1
3262	Vitreous China Table and Kitchen Articles	Yes	E-1
3263	Fine Earthenware (Whiteware) Table and Kitchen Articles	Yes	E-1
3264	Porcelain Electrical Supplies	Yes	E-1
3269	Pottery Products, NEC	Yes	E-1
3271	Concrete Block and Brick	Yes	E-2
3272	Concrete Products, Except Block and Brick	Yes	E-2
3273	Ready-Mixed Concrete	Yes	E-2&3
3274	Lime	Yes	E-2
3275	Gypsum Products	Yes	E-2
3281	Cut Stone and Stone Products	Yes	E-3
3291	Abrasive Products	Yes	E-3
3292	Asbestos Products	Yes	E-3
3295	Minerals and Earths, Ground or Otherwise Treated	Yes	E-3
3296	Mineral Wool	Yes	E-3
3297	Nonclay Refractories	Yes	E-3
3299	Nonmetallic Mineral Products, NEC	Yes	E-3
Sector F: Primary Metals Facilities			
3312	Steel Works, Blast Furnaces (Including Coke Ovens), and Rolling Mills	Yes	F-1
3313	Electrometallurgical Products, Except Steel	Yes	F-1
3315	Steel Wiredrawing and Steel Nails and Spikes	Yes	F-1
3316	Cold-Rolled Steel Sheet, Strip, and Bars	Yes	F-1

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SIC Code	Industrial Activity	Sampling Required?	Table Number
3317	Steel Pipe and Tubes	Yes	F-1
3321	Gray and Ductile Iron Foundries	Yes	F-2
3322	Malleable Iron Foundries	Yes	F-2
3324	Steel Investment Foundries	Yes	F-2
3325	Steel Foundries, NEC	Yes	F-2
3331	Primary Smelting and Refining of Copper	No	--
3334	Primary Production of Aluminum	No	--
3339	Primary Smelting and Refining of Nonferrous Metals, Except Copper and Aluminum	No	--
3341	Secondary Smelting and Refining of Nonferrous Metals	No	--
3351	Rolling, Drawing, and Extruding of Copper	Yes	F-3
3353	Aluminum Sheet, Plate, and Foil	Yes	F-3
3354	Aluminum Extruded Products	Yes	F-3
3355	Aluminum Rolling and Drawing, NEC	Yes	F-3
3356	Rolling, Drawing, and Extruding of Nonferrous Metals, Except Copper and Aluminum	Yes	F-3
3357	Drawing and Insulating of Nonferrous Wire	Yes	F-3
3363	Aluminum Die-Castings	Yes	F-4
3364	Nonferrous Die-Castings, Except Aluminum	Yes	F-4
3365	Aluminum Foundries	Yes	F-4
3366	Copper Foundries	Yes	F-4
3369	Nonferrous Foundries, Except Aluminum and Copper	Yes	F-4
3398	Metal Heat Treating	No	--
3399	Primary Metal Products, NEC	No	--
Sector G: Metal Mines (Ore Mining and Dressing) (RESERVED)			
1011	Iron Ores	No	--
1021	Copper Ores	No	--
1031	Lead and Zinc Ores	No	--
1041	Gold Ores	No	--
1044	Silver Ores	No	--
1061	Ferroalloy Ores, Except Vanadium	No	--
1081	Metal Mining Services	No	--
1094	Uranium-Radium-Vanadium Ores	No	--
1099	Miscellaneous Metal Ores, NEC	No	--
Sector H: Inactive Coal Mines and Inactive Coal Mining-Related Facilities			
1221	Bituminous Coal and Lignite Surface Mining	Yes	H-1
1222	Bituminous Coal Underground Mining	Yes	H-1
1231	Anthracite Mining	Yes	H-1
1241	Coal Mining Services	Yes	H-1
Sector I: Oil or Gas Extraction Facilities			
1311	Crude Petroleum and Natural Gas	No	-
1321	Natural Gas Liquids	No	-
1381	Drilling Oil and Gas Wells	No	-
1382	Oil and Gas Field Exploration Services	No	-
1389	Oil and Gas Field Services, NEC	No	-
2911	Oil Refining	Yes	I-1
Sector J: Construction Sand and Gravel Mining and Processing and Dimension Stone Mining and Quarrying Facilities			
1411	Dimension Stone	Yes	J-2
1422	Crushed and Broken Limestone	Yes	J-2
1423	Crushed and Broken Granite	Yes	J-2
1429	Crushed and Broken Stone, NEC	Yes	J-2
1442	Construction Sand and Gravel	Yes	J-1
1411	Dimension Stone	Yes	J-3

SIC Code	Industrial Activity	Sampling Required?	Table Number
1422	Crushed and Broken Limestone	Yes	J-1 & 2
1423	Crushed and Broken Granite	Yes	J-1 & 2
1429	Crushed and Broken Stone, NEC	Yes	J-1 & 2
1442	Construction Sand and Gravel	Yes	J-1 & 2
1446	Industrial Sand	Yes	J-1 & 2
1455	Kaolin and Ball Clay	Yes	J-3
1459	Clay, Ceramic, and Refractory Minerals, NEC	Yes	J-3
1474	Potash, Soda, and Borate Minerals	Yes	J-3
1475	Phosphate Rock	Yes	J-3
1479	Chemical and Fertilizer Mineral Mining, NEC	Yes	J-3
1481	Nonmetallic Minerals Services Except Fuels	Yes	J-3
1499	Miscellaneous Nonmetallic Minerals, Except Fuels	Yes	J-3
Sector K: Hazardous Waste Treatment Storage or Disposal Facilities			
--	Hazardous Waste Treatment Storage or Disposal Facilities (TSDF)	Yes	K-1 or 2
Sector L: Landfills and Land Application Sites			
4953	Refuse Systems	Yes	L-1 or 2
Sector M: Automobile Salvage Yards			
5015	Motor Vehicle Parts, Used	Yes	M-1
Sector N: Scrap Recycling and Waste and Recycling Facilities			
5093	Scrap and Waste Materials	Yes	N-1
Sector O: Steam Electric Power Generating Facilities			
4911	Electric Services	Yes	O-1&2
Sector P: Vehicle Maintenance or Equipment Cleaning areas at Motor Freight Transportation Facilities, Passenger Transportation Facilities, Petroleum Bulk Oil Stations and Terminals, the United States Postal Service, or Railroad Transportation Facilities			
4011	Railroads, Line-haul Operating	No	-
4013	Railroad Switching and Terminal Establishments	No	-
4111	Local and Suburban Transit	No	-
4119	Local Passenger Transportation, NEC	No	-
4121	Taxicabs	No	-
4131	Intercity and Rural Bus Transportation	No	-
4141	Local Bus Charter Service	No	-
4142	Bus Charter Service, Except Local	No	-
4151	School Buses	No	-
4173	Terminal and Service Facilities for Motor Vehicle Passenger Transportation	No	-
4212	Local Trucking Without Storage	No	-
4213	Trucking, Except Local	No	-
4214	Local Trucking with Storage	No	-
4215	Couriers Services Except by Air	No	-
4221	Farm Product Warehousing and Storage	No	-
4222	Refrigerated Warehousing and Storage	No	-
4225	General Warehousing and Storage	No	-
4226	Special Warehousing and Storage, NEC	No	-
4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	No	-
4311	United States Postal Service	No	-
5171	Petroleum Bulk Stations and Terminals	No	-
Sector Q: Vehicle Maintenance Areas and Equipment Cleaning Areas of Water Transportation Facilities			
4412	Deep Sea Foreign Transportation of Freight	Yes	Q-1
4424	Deep Sea Domestic Transportation of Freight	Yes	Q-1
4432	Freight Transportation on the Great Lakes - St. Lawrence Seaway	Yes	Q-1

TMSP Rationale

SIC Code	Industrial Activity	Sampling Required?	Table Number
4449	Water Transportation of Freight, NEC	Yes	Q-1
4481	Deep Sea Transportation of Passengers, Except by Ferry	Yes	Q-1
4482	Ferries	Yes	Q-1
4489	Water Transportation of Passengers, NEC	Yes	Q-1
4491	Marine Cargo Handling	Yes	Q-1
4492	Towing and Tugboat Services	Yes	Q-1
4493	Marinas	Yes	Q-1
4499	Water Transportation Services, NEC	Yes	Q-1
Sector R: Ship or Boat Building and Repair Yards			
3731	Ship Building and Repairing	No	-
3732	Boat Building and Repairing	No	-
Sector S: Vehicle Maintenance Areas, Equipment Cleaning Areas or From Airport Deicing Operations located at Air Transportation Facilities			
4512	Air Transportation, Scheduled	No*	S-1
4513	Air Courier Services	No*	S-1
4522	Air Transportation, Nonscheduled	No*	S-1
4581	Airports, Flying Fields, and Airport Terminal Services	No*	S-1
* Except for airports that use more than 100,000 gallons of glycol-based deicing/anti-icing chemicals and/or 100 tons or more of urea on an average annual basis: see Part 5: "Monitoring and Reporting Requirements."			
Sector T: Wastewater Treatment Works			
4952	Sewerage Systems	No	-
Sector U: Food and Kindred Products Facilities			
2011	Meat Packing Plants	No	U-1
2013	Sausages and Other Prepared Meats	Yes	U-1
2015	Poultry Slaughtering and Processing	Yes	U-1
2021	Creamery Butter	Yes	U-1
2022	Natural, Processed, and Imitation Cheese	Yes	U-1
2023	Dry, Condensed, and Evaporated Dairy Products	Yes	U-1
2024	Ice Cream and Frozen Desserts	Yes	U-1
2026	Fluid Milk	Yes	U-1
2032	Canned Specialties	Yes	U-1
2033	Canned Fruits, Vegetables, Preserves, Jams, and Jellies	Yes	U-1
2034	Dried and Dehydrated Fruits, Vegetables, and Soup Mixes	Yes	U-1
2035	Pickled Fruits and Vegetables, Vegetables Sauces and Seasonings, and Salad Dressings	Yes	U-1
2037	Frozen Fruits, Fruit Juices, and Vegetables	Yes	U-1
2038	Frozen Specialties, NEC	Yes	U-1
2041	Flour and Other Grain Mill Products	Yes	U-2
2043	Cereal Breakfast Foods	Yes	U-1
2044	Rice Milling	Yes	U-1
2045	Prepared Flour Mixes and Doughs	Yes	U-1
2046	Wet Corn Milling	Yes	U-1
2047	Dog and Cat Food	Yes	U-1
2048	Prepared Feed and Feed Ingredients for Animals and Fowls, Except Dogs and Cats	Yes	U-1
2051	Bread and Other Bakery Products, Except Cookies and Crackers	Yes	U-1
2052	Cookies and Crackers	Yes	U-1
2053	Frozen Bakery Products, Except Bread	Yes	U-1
2061	Cane Sugar, Except Refining	Yes	U-1
2062	Cane Sugar Refining	Yes	U-1
2063	Beet Sugar	Yes	U-1
2064	Candy and Other Confectionery Products	Yes	U-1
2066	Chocolate and Cocoa Products	Yes	U-1
2067	Chewing Gum	Yes	U-1

SIC Code	Industrial Activity	Sampling Required?	Table Number
2068	Salted and Roasted Nuts and Seeds	Yes	U-1
2074	Cottonseed Oil Mills	Yes	U-2
2075	Soybean Oil Mills	Yes	U-2
2076	Vegetable Oil Mills, Except Corn, Cottonseed, and Soybeans	Yes	U-2
2077	Animal and Marine Fats and Oils	Yes	U-2
2079	Shortening, Table Oils, Margarine, and Other Edible Fats and Oils, NEC	Yes	U-2
2082	Malt Beverages	Yes	U-1
2083	Malt	Yes	U-1
2084	Wines, Brandy, and Brandy Spirits	Yes	U-1
2085	Distilled and Blended Liquors	Yes	U-1
2086	Bottled and Canned Soft Drinks and Carbonated Waters	Yes	U-1
2087	Flavoring Extracts and Flavoring Syrups NEC	Yes	U-1
2091	Canned and Cured Fish and Seafood	Yes	U-1
2092	Prepared Fresh or Frozen Fish and Seafood	Yes	U-1
2095	Roasted Coffee	Yes	U-1
2096	Potato Chips, Corn Chips, and Similar Snacks	Yes	U-1
2097	Manufactured Ice	Yes	U-1
2098	Macaroni, Spaghetti, Vermicelli, and Noodles	Yes	U-1
2099	Food Preparations, NEC	Yes	U-1
2111	Cigarettes	Yes	U-1
2121	Cigars	Yes	U-1
2131	Chewing and Smoking Tobacco and Snuff	Yes	U-1
2141	Tobacco Stemming and Redrying	Yes	U-1
Sector V: Textile Mills, Apparel and other Fabric Product Manufacturing Facilities; and Leather and Leather Products			
2211	Broadwoven Fabric Mills, Cotton	No	-
2221	Broadwoven Fabric Mills, Manmade Fiber and Silk	No	-
2231	Broadwoven Fabric Mills, Wool (Including Dyeing and Finishing)	No	-
2241	Narrow Fabric and Other Smallware Mills: Cotton, Wool, Silk, and Manmade Fiber	No	-
2251	Women's Full-Length and Knee-Length Hosiery, Except Socks	No	-
2252	Hosiery, NEC	No	-
2253	Knit Outerwear Mills	No	-
2254	Knit Underwear and Nightwear Mills	No	-
2257	Weft Knit Fabric Mills	No	-
2258	Lace and Warp Knit Fabric Mills	No	-
2259	Knitting Mills, NEC	No	-
2261	Finishers of Broadwoven Fabrics of Cotton	No	-
2262	Finishers of Broadwoven Fabrics of Manmade Fiber and Silk	No	-
2269	Finishers of Textiles, NEC	No	-
2273	Carpets and Rugs	No	-
2281	Yarn Spinning Mills	No	-
2282	Yarn Texturizing, Throwing, Twisting, and Winding Mills	No	-
2284	Thread Mills	No	-
2295	Coated Fabrics, Not Rubberized	No	-
2296	Tire Cord and Fabrics	No	-
2297	Nonwoven Fabrics	No	-
2298	Cordage and Twine	No	-
2299	Textile Goods, NEC	No	-
2311	Men's and Boys' Suits, Coats and Overcoats	No	-
2321	Men's and Boys' Shirts, Except Work Shirts	No	-
2322	Men's and Boys' Underwear and Nightwear	No	-
2323	Men's and Boys' Neckwear	No	-
2325	Men's and Boys' Trousers and Slacks	No	-
2326	Men's and Boys' Work Clothing	No	-

TMSP Rationale

SIC Code	Industrial Activity	Sampling Required?	Table Number
2329	Men's and Boys' Clothing, NEC	No	-
2331	Women's, Misses', and Juniors' Blouses and Shirts	No	-
2335	Women's, Misses' and Junior's Dresses	No	-
2337	Women's, Misses' and Juniors' Suits, Skirts and Coats	No	-
2339	Women's, Misses' and Juniors' Outerwear, NEC	No	-
2341	Women's, Misses, Children's, and Infants' Underwear and Nightwear	No	-
2342	Brassieres, Girdles, and Allied Garments	No	-
2353	Hats, Caps, and Millinery	No	-
2361	Girls', Children's and Infants' Dresses, Blouses and Shirts	No	-
2369	Girls', Children's and Infants' Outerwear, NEC	No	-
2371	Fur Goods	No	-
2381	Dress and Work Gloves, Except Knit and All-Leather	No	-
2384	Robes and Dressing Gowns	No	-
2385	Waterproof Outerwear	No	-
2386	Leather and Sheep-Lined Clothing	No	-
2387	Apparel Belts	No	-
2389	Apparel and Accessories, NEC	No	-
2391	Curtains and Draperies	No	-
2392	House furnishings, Except Curtains and Draperies	No	-
2393	Textile Bags	No	-
2394	Canvas and Related Products	No	-
2395	Pleating, Decorative and Novelty Stitching, and Tucking for the Trade	No	-
2396	Automotive Trimmings, Apparel Findings, and Related Products	No	-
2397	Schiffli Machine Embroideries	No	-
2399	Fabricated Textile Products, NEC	No	-
3131	Boot and Shoe Cut Stock and Findings	No	-
3142	House Slippers	No	-
3143	Men's Footwear, Except Athletic	No	-
3144	Women's Footwear, Except Athletic	No	-
3149	Footwear, Except Rubber, NEC	No	-
3151	Leather Gloves and Mittens	No	-
3161	Luggage	No	-
3171	Women's Handbags and Purses	No	-
3172	Personal Leather Goods, Except Women's Handbags and Purses	No	-
3199	Leather Goods, Not Elsewhere Classified	No	-
Sector W: Furniture and Fixture Manufacturing Facilities			
2434	Wood Kitchen Cabinets	No	-
2511	Wood Household Furniture, Except Upholstered	No	-
2512	Wood Household Furniture, Upholstered	No	-
2514	Metal Household Furniture	No	-
2515	Mattresses, Foundations, and Convertible Beds	No	-
2517	Wood Television, Radio, Phonograph and Sewing Machine Cabinets	No	-
2519	Household Furniture, NEC	No	-
2521	Wood Office Furniture	No	-
2522	Office Furniture, Except Wood	No	-
2531	Public Building and Related Furniture	No	-
2541	Wood Office and Store Fixtures, Partitions, Shelving, and Lockers	No	-
2542	Office and Store Fixtures, Partitions Shelving, and Lockers, Except Wood	No	-
2591	Drapery Hardware and Window Blinds and Shades	No	-
2599	Furniture and Fixtures, NEC	No	-
Sector X: Printing and Plate making Facilities			
2711	Newspapers: Publishing, or Publishing and printing	No	-
2721	Periodicals: Publishing, or Publishing and Printing	No	-
2731	Book Publishing	No	-
2732	Book Printing	No	-

SIC Code	Industrial Activity	Sampling Required?	Table Number
2741	Miscellaneous Printing	No	-
2752	Commercial Printing, Lithographic	No	-
2754	Commercial Printing, Gravure	No	-
2759	Commercial Printing, NEC	No	-
2761	Manifold Business Forms	No	-
2771	Greeting Cards	No	-
2782	Blank books, Loose-leaf Binders and devices	No	-
2789	Bookbinding and Related Work	No	-
2791	Typesetting	No	-
2796	Plate making and Related Services	No	-
Sector Y: Rubber and Miscellaneous Plastic Product Manufacturing Facilities			
3011	Tires and Inner Tubes	Yes	Y-1
3021	Rubber and Plastics Footwear	Yes	Y-1
3052	Rubber and Plastics Hose and Belting	Yes	Y-1
3053	Gaskets, Packing, and Sealing Devices	Yes	Y-1
3061	Molded, Extruded, and Lathe-Cut Mechanical Rubber Products	Yes	Y-1
3069	Fabricated Rubber Products, NEC	Yes	Y-1
3081	Unsupported Plastics Film and Sheet	No	-
3082	Unsupported Plastics Profile Shapes	No	-
3083	Laminated Plastics Plate, Sheet, and Profile Shapes	No	-
3084	Plastic Pipe	No	-
3085	Plastics Bottles	No	-
3086	Plastics Foam Products	No	-
3087	Custom Compounding of Purchased Plastics Resins	No	-
3088	Plastics Plumbing Fixtures	No	-
3089	Plastics Products, NEC	No	-
3931	Musical Instruments	No	-
3942	Dolls and Stuffed Toys	No	-
3944	Games, Toys, and Children's Vehicles, Except Dolls and Bicycles	No	-
3949	Sporting and Athletic Goods, NEC	No	-
3951	Pens, Mechanical Pencils and Parts	No	-
3952	Lead Pencils, Crayons, and Artist's Materials	No	-
3953	Marking Devices	No	-
3955	Carbon Paper and Inked Ribbons	No	-
3961	Costume Jewelry and Costume Novelties, Except Precious Metals	No	-
3965	Fasteners, Buttons, Needles, and Pins	No	-
3991	Brooms and Brushes	No	-
3993	Signs and Advertising Specialties	No	-
3995	Burial Caskets	No	-
3996	Linoleum, Asphalted-Felt-Base, and Other Hard Surface Floor Coverings, NEC	No	-
3999	Manufacturing Industries, NEC	No	-
Sector Z: Leather Tanning and Finishing Facilities			
3111	Leather Tanning and Finishing	No	-
Sector AA: Facilities That Manufacture Metal Products including Jewelry, Silverware and Plated Ware			
3411	Metal Cans	Yes	AA-1
3412	Metal Shipping Barrels, Drums, Kegs, and Pails	Yes	AA-1
3421	Cutlery	Yes	AA-1
3423	Hand and Edge Tools, Except Machine Tools and Handsaws	Yes	AA-1
3425	Saw Blades and Handsaws	Yes	AA-1
3429	Hardware, NEC	Yes	AA-1
3431	Enameled Iron and Metal Sanitary Ware	Yes	AA-1
3432	Plumbing Fixture Fittings and Trim	Yes	AA-1
3433	Heating Equipment, Except Electric and Warm Air Furnaces	Yes	AA-1

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SIC Code	Industrial Activity	Sampling Required?	Table Number
3441	Fabricated Structural Metal	Yes	AA-1
3442	Metal Doors, Sash, Frames, Molding, and Trim Manufacturing	Yes	AA-1
3443	Fabricated Plate Work (Boiler Shops)	Yes	AA-1
3444	Sheet Metal Work	Yes	AA-1
3446	Architectural and Ornamental Metal Work	Yes	AA-1
3448	Prefabricated Metal Buildings and Components	Yes	AA-1
3449	Miscellaneous Structural Metal Work	Yes	AA-1
3451	Screw Machine Products	Yes	AA-1
3452	Bolts, Nuts, Screws, Rivets, and Washers	Yes	AA-1
3462	Iron and Steel Forgings	Yes	AA-1
3463	Nonferrous Forgings	Yes	AA-1
3465	Automotive Stamping	Yes	AA-1
3466	Crowns and Closures	Yes	AA-1
3469	Metal Stamping, NEC	Yes	AA-1
3471	Electroplating, Plating, Polishing, Anodizing, and Coloring	Yes	AA-2
3479	Coating, Engraving, and Allied Services, NEC	Yes	AA-2
3482	Small Arms Ammunition	Yes	AA-1
3483	Ammunition, Except Small Arms	Yes	AA-1
3484	Small Arms	Yes	AA-1
3489	Ordnance and Accessories, NEC	Yes	AA-1
3491	Industrial Valves	Yes	AA-1
3492	Fluid Power Valves and Hose Fittings	Yes	AA-1
3493	Steel Springs, Except Wire	Yes	AA-1
3494	Valves and Pipe Fittings, NEC	Yes	AA-1
3495	Wire Springs	Yes	AA-1
3496	Miscellaneous Fabricated Wire Products	Yes	AA-1
3497	Metal Foil and Leaf	Yes	AA-1
3498	Fabricated Pipe and Pipe Fittings	Yes	AA-1
3499	Fabricated Metal Products, NEC	Yes	AA-1
3911	Jewelry, Precious Metal	Yes	AA-1
3914	Silverware, Plated Ware, and Stainless Steel Ware	Yes	AA-1
3915	Jewelers' Findings and Materials, and Lapidary Work	Yes	AA-1
Sector AB: Facilities That Manufacture Transportation Equipment, Industrial or Commercial Machinery			
3511	Steam, Gas, and Hydraulic Turbines, and Turbine Generator Set Units	Yes	AB-1
3519	Internal Combustion Engines, NEC	Yes	AB-1
3523	Farm Machinery and Equipment	Yes	AB-1
3524	Lawn and Garden Tractors and Home Lawn and Garden Equipment	Yes	AB-1
3531	Construction Machinery and Equipment	Yes	AB-1
3532	Mining Machinery and Equipment, Except Oil and Gas Field Machinery and Equipment	Yes	AB-1
3533	Oil and Gas Field Machinery and Equipment	Yes	AB-1
3534	Elevators and Moving Stairways	Yes	AB-1
3535	Conveyors and Conveying Equipment	Yes	AB-1
3536	Overhead Traveling Cranes, Hoists and Monorail Systems	Yes	AB-1
3537	Industrial Trucks, Tractors, Trailers, and Stackers	Yes	AB-1
3541	Machine Tools, Metal Cutting Type	Yes	AB-1
3542	Machine Tools, Metal Forming Type	Yes	AB-1
3543	Industrial Patterns	Yes	AB-1
3544	Special Dies and Tools, Die Sets, Jigs and Fixtures, and Industrial Molds	Yes	AB-1
3545	Cutting Tools, Machine Tool Accessories, and Machinists' Precision Measuring Devices	Yes	AB-1
3546	Power-Driven Hand tools	Yes	AB-1
3547	Rolling Mill Machinery and Equipment	Yes	AB-1
3548	Electric and Gas Welding and Soldering Equipment	Yes	AB-1

SIC Code	Industrial Activity	Sampling Required?	Table Number
3549	Metalworking Machinery, NEC	Yes	AB-1
3552	Textile Machinery	Yes	AB-1
3553	Woodworking Machinery	Yes	AB-1
3554	Paper Industries Machinery	Yes	AB-1
3555	Printing Trades Machinery and Equipment	Yes	AB-1
3556	Food Products Machinery	Yes	AB-1
3559	Special Industry Machinery, NEC	Yes	AB-1
3561	Pumps and Pumping Equipment	Yes	AB-1
3562	Ball and Roller Bearings	Yes	AB-1
3563	Air and Gas Compressors	Yes	AB-1
3564	Industrial and Commercial Fans and Blowers and Air Purification Equipment	Yes	AB-1
3565	Packaging Machinery	Yes	AB-1
3566	Speed Changers, Industrial High-Speed Drives, and Gears	Yes	AB-1
3567	Industrial Process Furnaces and Ovens	Yes	AB-1
3568	Mechanical Power Transmission Equipment, NEC	Yes	AB-1
3569	General Industrial Machinery and Equipment, NEC	Yes	AB-1
3581	Automatic Vending Machines	Yes	AB-1
3582	Commercial Laundry, Dry-cleaning, and Pressing Machines	Yes	AB-1
3585	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment	Yes	AB-1
3586	Measuring and Dispensing Pumps	Yes	AB-1
3589	Service Industry Machinery, NEC	Yes	AB-1
3592	Carburetors, Pistons, Piston Rings and Valves	Yes	AB-1
3593	Fluid Power Cylinders and Actuators	Yes	AB-1
3594	Fluid Power Pumps and Motors	Yes	AB-1
3596	Scales and Balances, Except Laboratory	Yes	AB-1
3599	Industrial and Commercial Machinery and Equipment, NEC	Yes	AB-1
3711	Motor Vehicles and Passenger Car Bodies	Yes	AB-1
3713	Truck and Bus Bodies	Yes	AB-1
3714	Motor Vehicle Parts and Accessories	Yes	AB-1
3715	Truck Trailers	Yes	AB-1
3716	Motor Homes	Yes	AB-1
3721	Aircraft	Yes	AB-1
3724	Aircraft Engines and Engine Parts	Yes	AB-1
3728	Aircraft Parts and Auxiliary Equipment, NEC	Yes	AB-1
3743	Railroad Equipment	Yes	AB-1
3751	Motorcycles, Bicycles, and Parts	Yes	AB-1
3761	Guided Missiles and Space Vehicles	Yes	AB-1
3764	Guided Missile and Space Vehicle Propulsion Units and Propulsion Unit Parts	Yes	AB-1
3769	Guided Missile Space Vehicle Parts and Auxiliary Equipment, NEC	Yes	AB-1
3792	Travel Trailers and Campers	Yes	AB-1
3795	Tanks and Tank Components	Yes	AB-1
3799	Transportation Equipment, NEC	Yes	AB-1
Sector AC: Facilities That Manufacture Electronic and Electrical Equipment and Components, Photographic and Optical Goods			
3571	Electronic Computers	No	-
3572	Computer Storage Devices	No	-
3575	Computer Terminals	No	-
3577	Computer Peripheral Equipment, NEC	No	-
3578	Calculating and Accounting Machines, Except Electronic Computers	No	-
3579	Office Machines, NEC	No	-
3612	Power, Distribution, and Specialty Transformers	No	-
3613	Switchgear and Switchboard Apparatus	No	-
3621	Motors and Generators	No	-

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SIC Code	Industrial Activity	Sampling Required?	Table Number
3624	Carbon and Graphite Products	No	-
3625	Relays and Industrial Controls	No	-
3629	Electrical Industrial Apparatus, NEC	No	-
3631	Household Cooking Equipment	No	-
3632	Household Refrigerators and Home and Farm Freezers	No	-
3633	Household Laundry Equipment	No	-
3634	Electric Housewares and Fans	No	-
3635	Household Vacuum Cleaners	No	-
3639	Household Appliances, NEC	No	-
3641	Electric Lamp Bulbs and Tubes	No	-
3643	Current-Carrying Wiring Devices	No	-
3644	Noncurrent-Carrying Wiring Devices	No	-
3645	Residential Electric Lighting Fixtures	No	-
3646	Commercial, Industrial, and Institutional Electric Lighting Fixtures	No	-
3647	Vehicular Lighting Equipment	No	-
3648	Lighting Equipment, NEC	No	-
3651	Household Audio and Video Equipment	No	-
3652	Phonograph Records and Pre-recorded Audio Tapes and Disks	No	-
3661	Telephone and Telegraph Apparatus	No	-
3663	Radio and Television Broadcasting and Communication Equipment	No	-
3669	Communications Equipment, NEC	No	-
3671	Electron Tubes	No	-
3672	Printed Circuit Boards	No	-
3674	Semiconductors and Related Devices	No	-
3675	Electronic Capacitors	No	-
3676	Electronic Resistors	No	-
3677	Electronic Coils, Transformers, and Other Inductors	No	-
3678	Electronic Connectors	No	-
3679	Electronic Components, NEC	No	-
3691	Storage Batteries	No	-
3692	Primary Batteries, Dry and Wet	No	-
3694	Electrical Equipment for Internal Combustion Engines	No	-
3695	Magnetic and Optical Recording Media	No	-
3699	Electrical Machinery, Equipment, and Supplies, NEC	No	-
3812	Search, Detection, Navigation, Guidance, Aeronautical, and Nautical Systems and Instruments	No	-
3821	Laboratory Apparatus and Furniture	No	-
3822	Automatic Controls for Regulating Residential and Commercial Environments and Appliances	No	-
3823	Industrial Instruments for Measurement, Display, and Control of Process Variables; and Related Products	No	-
3824	Totalizing Fluid Meters and Counting Devices	No	-
3825	Instruments for Measuring and Testing of Electricity and Electrical Signals	No	-
3826	Laboratory Analytical Instruments	No	-
3827	Optical Instruments and Lenses	No	-
3829	Measuring and Controlling Devices, NEC	No	-
3841	Surgical and Medical Instruments and Apparatus	No	-
3842	Orthopedic, Prosthetic, and Surgical Appliances and Supplies	No	-
3843	Dental Equipment and Supplies	No	-
3844	X-Ray Apparatus and Tubes and Related Irradiation Apparatus	No	-
3845	Electromedical and Electrotherapeutic Apparatus	No	-
3851	Ophthalmic Goods	No	-
3861	Photographic Equipment and Supplies	No	-
3873	Watches, Clocks, Clockwork Operated Devices and Parts	No	-

SIC Code	Industrial Activity	Sampling Required?	Table Number
Sector AD: Facilities That Are Not Covered Under Sectors A Thru AC (Monitoring Required)			
9999	Nonclassifiable Establishments	Yes	AD-1
Sector AE: Facilities That Are Not Covered Under Sectors A Thru AC (Monitoring <u>Not</u> Required)			
9999	Nonclassifiable Establishments	No	--
Sector AF: Stormwater Discharges Associated With Industrial Activity From Borrow Pits, Soil Harvesting Sites and Spoil Piles			
9999	Nonclassifiable Establishments	Yes	AF-1

3 Types of Discharges Covered

This permit covers stormwater discharges associated with industrial activity from the 11 industrial categories which the EPA has determined to contain stormwater discharges consistent with the EPA’s definition of “*stormwater discharges associated with industrial activity.*” These 11 categories have been regrouped into the industrial sectors based upon similarities in the nature of the industrial activity, the type of materials handled and material management practices employed. This permit also covers stormwater discharges associated with industrial activity from those industries which will not be, or are not, covered under sectors A thru AC. The requirements listed under sections AD, AE and AF apply to stormwater discharges associated with industrial activity from those facilities that are not covered for such discharges under Sectors A thru AC. Sector AF was added to authorize stormwater discharges associated with industrial activity from Borrow Pits, Soil Harvesting Sites and Spoil Piles (see text below for more information).

Generally, the term “*stormwater discharges associated with industrial activity*” means the discharge from any conveyance which is used for collecting and conveying stormwater and which is directly related to manufacturing, processing or raw materials storage areas at an industrial plant. This is only part of the extensive definition of such discharges as promulgated by the EPA at 40 CFR §122.26(b)(14). Four types of stormwater discharges subject to effluent limitation guidelines may be covered under this permit if they are not already subject to an existing or expired NPDES permit. These discharges include contaminated stormwater runoff from phosphate fertilizer manufacturing facilities, runoff associated with either asphalt paving or roofing emulsion production, runoff from material storage piles at cement manufacturing facilities, and coal pile runoff at steam electric generating facilities. This permit does not, however, authorize all stormwater discharges subject to effluent guidelines. Stormwater discharges subject to effluent guidelines under 40 CFR §436 or for mine drainage under 40 CFR §440 are not covered under this permit nor are discharges subject to effluent guidelines for acid or alkaline mine drainage under 40 CFR §434.

Because of the broad scope of this permit, most industrial activities currently regulated under the stormwater program may be covered by the permit. There are, however, stormwater discharges that are not covered under this permit. Stormwater discharges subject to an existing individual NPDES permit are not covered under this permit. We believe that in most cases these discharges are more appropriately covered under terms and conditions of their existing permit. These discharges may be covered under this permit only when the existing permit has expired and only when the expired permit did not contain numeric effluent limitations more stringent than those in this permit. Construction activities are not

eligible for coverage under this permit. Stormwater discharges that were subject to a permit that was terminated as a result of the permittee's request are eligible for coverage under this permit. Stormwater discharges from industrial activities that are not addressed in the appropriate section of part 11 of this permit are not eligible for coverage under this permit.

4 Monitoring Requirements

This permit requires analytical monitoring for discharges from certain classes of industrial facilities. We believe that industries may reduce the level of pollutants in stormwater runoff from their sites through the development and proper implementation of a stormwater pollution prevention plan (SWPPP) as discussed in this permit. The permit only requires analytical monitoring for the industry sectors or subsectors that demonstrated a potential to discharge pollutants at concentrations of concern.

To determine when such analytical monitoring would be required, the EPA established “benchmark” concentrations for the pollutant parameters on which monitoring results had been received. The “benchmarks” are the pollutant concentrations above which the EPA determined represents a level of concern. The level of concern is a concentration at which a stormwater discharge could potentially impair, or contribute to impairing water quality or affect human health from ingestion of water or fish. The benchmarks are also viewed by the division as a level, that if below, a facility represents little potential for water quality concern. As such, the benchmarks also provide an appropriate level to determine whether a facility's stormwater pollution prevention measures are successfully implemented. The benchmark concentrations are not effluent limitations and should not be interpreted or construed as such. These values are merely levels which the division is using to determine if a stormwater discharge from any given facility merits further monitoring to insure that the facility has been successful in implementing a stormwater pollution prevention plan. As such, these levels represent a target concentration for a facility to achieve through implementation of pollution prevention measures at the facility.

5 Proposed Changes in the New TMSP

5.1 Typographical Errors and Clarifications

The proposed general permit has been modified to address typographical errors and clarifications. We do not consider any of these typographical errors and clarifications to be of a substantial nature which in any way removes, weakens, or diminishes permit requirements. Such changes are, therefore, not specifically itemized in this permit rationale. We plan to provide a “*redline*” version of the proposed permit to our customers, where all changes can be tracked and identified.

5.2 References to “Sector Median Value” of stormwater sampling results were removed from the proposed general permit

The previous permit had references to the sector median value. It was defined as:

[...] a pollutant concentration calculated from all sampling results provided from facilities classified in this sector during the previous permit term. By definition, a median is a statistical term identifying a number that divides numerically ordered data into two equal halves. In easier terms, the median is the middle piece of data when those

data are placed in numerical order, or the average of the middle two if there is an even number of items. Therefore, median concentration(s) listed above represent a concentration value typical for and achieved by industries in this sector.

The intent was to give facilities a sense how their sampling results compare to other permitted facilities across the state. In reality, it caused confusion among permittees, as they were not always able to make a distinction between “sector median values” and benchmark values (which are retained).

5.3 Sector AF was added - Stormwater Discharges Associated With Industrial Activity From Borrow Pits, Soil Harvesting Sites and Spoil Piles

Previous permit recognized that businesses with borrow pits, soil harvesting and spoil piles that are not associated with (and supporting) a single construction site are considered industrial activities that require coverage under the TMSP. Neither a construction stormwater permit or any of other sector in the previous TMSP were a good “fit” for soil harvesting activities. The new sector, customized for this type of businesses was added, providing adequate protection for receiving streams without burdening permittees with unnecessary regulatory requirements.

5.4 A copy of the Notice of Coverage (NOC) must be kept on site

Our inspections showed that permittee staff at some facilities had a lack of understanding of permit requirements and associated paperwork. The starting point for compliance purposes, following the submittal of Notice of Intent (NOI), is familiarity with TMSP coverage and corresponding requirements. Consequently, a copy of the NOC must be kept on the site along with the SWPPP.

5.5 Erosion and Sedimentation Control requirements for Landfills and Land Application sites

Upon request of our EFO staff, based on their inspection observations, as well as the language included in the latest EPA multi-sector permit, the following paragraph was added to the Sector L:

“Provide temporary stabilization (e.g., temporary seeding, mulching, and placing geotextiles on the inactive portions of stockpiles) for the following: materials stockpiled for daily, intermediate, and final cover; inactive areas of the landfill or open dump; landfills or open dump areas that have gotten final covers but where vegetation has yet to establish itself; and land application sites where waste application has been completed but final vegetation has not yet been established.”

5.6 Annual monitoring reports will be submitted to the appropriate Environmental Field Office (EFO) for the county where the facility is located. A list of EFOs and their addresses are available in subpart 3.3 of the permit

The EFOs have the ability to enter the monitoring data from their respective offices through the statewide data base. This will allow the EFO to more quickly review the monitoring data and take appropriate action.

5.7 Reporting requirements for annual monitoring reports were changed to provide information sooner to the division.

Instead of a single deadline of March 31 for each calendar year, the language was changed to say:

“The form(s) shall be submitted 30 days after the sampling results are obtained, but no later than the March 31st of the following calendar year.”

During the previous permit term, Tennessee Clean Water Network (TCWN) suggested that PCB monitoring be added to Sector N facilities

An assumption underlying the current TMSP's lack of PCB monitoring is that controlling for TSS will effectively remove PCBs. While this intuitively makes sense, existing data demonstrates that such correlation exists only for concentrations of TSS below 150 mg/L. Consequently, monitoring for PCBs in the new permit will be required for Sector N facilities if their TSS concentration exceeds 150 mg/L. The benchmark concentration for PCBs was adopted from the TN Rule 0400-40-03 - General Water Quality Criteria for protection of designated use of Fish and Aquatic Life. In the absence of an acute numeric criterion, two times the chronic criterion was used as the benchmark.

6 Permit Issuance and Public Notice Procedures

- A. This general permit is drafted in accordance with applicable NPDES regulations (40 CFR 122, 123, 124, and 125), the Tennessee Water Quality Control Act (T.C.A. § 69-3-101, et.seq.), and the department's permit issuance regulations at TN Rule 0400-40-10-.01, 02, and 03.
- B. The applicable regulations for issuance of this general permit are found in 40 CFR 122.28 and 123.44, and the regulations for fact sheet requirements are found in 40 CFR 124.8 and 124.56.
- C. The division will publish notice of its intent to issue the TMSP for stormwater discharges associated with industrial activity and notice the public hearing (conducted at multiple locations via videoconferencing) to receive comments on the draft permit. At least 30 days notice will be given for the public hearings. Comments will be received at least 10 ten days after the last hearing. Any interested person may request copies of the Rationale Sheet and draft permit and submit written comments on the draft permit.

For additional information contact:

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